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NOTICE OF ALLOWANCE AND FEE(S) DUE

7278

7590

06/11/2009

EXAMINER

MAI, NGOCLAN THI

ART UNIT PAPER NUMBER

DARBY & DARBY P.C. P.O. BOX 770 Church Street Station New York, NY 10008-0770

1793 DATE MAILED: 06/11/2009

١	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/596,004	05/21/2007	Takashi Nakai	09852/0204420-USO	1629

TITLE OF INVENTION: WARM MOLDING RAW MATERIAL POWDER AND WARM MOLDING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPOND	Feet pape	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
7278	7590 06/11	/2009	nuv			of Mailing or Transi	miccion
DARBY & DA P.O. BOX 770 Church Street St	tation	I he Stat addı tran	reby certify that the	is Fee(s) Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.	
New York, NY	10008-0770						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/596,004	05/21/2007	•	Takashi Nakai		098	52/0204420-USO	1629
TITLE OF INVENTION	I: WARM MOLDING R	AW MATERIAL POWD	ER AND WARM MOLDI	NG METHOD			
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/11/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MAI, NGO	CLAN THI	1793	075-252000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.		(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	oup entity Government
*	are submitted: No small entity discount p # of Copies	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lon	ger claiming SMA	LL ENT	TITY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t				e assignee or other party in
Authorized Signature	1			Date			
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 : idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa O TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450,

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10/596,004	596,004 05/21/2007		Takashi Nakai	09852/0204420-USO	1629	
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DARBY & DARBY P.C.				MAI, NGOCLAN THI		
P.O. BOX 770				ART UNIT	PAPER NUMBER	
Church Street Station New York, NY 10008-0770				1793 DATE MAILED: 06/11/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	10/596,004 Examiner	NAKAI ET AL. Art Unit			
•					
	NGOCLAN T. MAI	1793			
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir i) or other appropriate commu RIGHTS. This application is s	nthis application. If not included unication will be mailed in due cou	ırse. THIS		
1. This communication is responsive to <u>3/27/09</u> .					
2. ☑ The allowed claim(s) is/are <u>6 and 9-15</u> .					
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).			
2. Certified copies of the priority documents have		n No.			
3. \(\times \) Copies of the certified copies of the priority de			from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.				
 A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which given 			ICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.				
(a) ☐ including changes required by the Notice of Draftsper	rson's Patent Drawing Reviev	v (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u>				
(b) ☐ including changes required by the attached Examinel Paper No./Mail Date	's Amendment / Comment or	in the Office action of			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ck) of		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			e the		
Attachment(s)	F Notice of In	formal Datant Application			
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	_	formal Patent Application			
_ ,	Paper No./	ummary (PTO-413), Mail Date			
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	/. ∐ Examiner's	Amendment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allowa	nce		
· 0	9. 🔲 Other	<u>.</u> .			
	/Roy King/				
	Supervisory Par	tent Examiner, Art Unit 1793			

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Art Unit: 1793

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/27/09 has been entered.

Claims 7 and 9-15 are present in the application, wherein claims 12-15 claims are newly added and 1-6 and 8 have been cancelled in amendment filed 3/27/09.

Claims 7, 9-15 are allowable.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Applicant's invention (claim 7) is directed to a method for warm compaction which comprises attaching a powder consisting of a hydroxyl fatty acid salt having an average particle diameter of 50 gm or less on a forming surface of a mold; and using a warm molding raw material powder in powder metallurgy, the warm molding raw material powder comprising a lubricant which consists of a hydroxyl fatty acid salt having an average particle diameter of from 5 µm to 100 µm in a range of from 0.3 wt% to 2 wt%.

US 2001/0038802 discloses a method for warm compacting powder composition comprising a metal powder and a lubricant which can be lithium hydroxyl stearate. See [0079] and [0080]. US 2001/0038802 also discloses a lubricant for die lubrication consisting of a mixed

powder of at least two different lubricants each having a melting point higher than a predetermined temperature of the compaction pressure. See abstract and [0020]. Table of 1-1, compaction nos 2, 3 and 6 discloses using die lubricant comprising lithium hydroxystearate as one of the at least two lubricant. US 2001/0038802 therefore does not teach or suggest using lithium hydroxystearate as the only lubricant for the die.

U.S. Patent No. 6,140,278 to Thomas et al discloses a lubricated ferrous metal composition comprising metal powder and 0.1 to 3 wt% of a high density polyethylene lubricant based on the total weight of the composition. Thomas teaches the polyethylene may be the only lubricant or additional lubricant, as for example lithium 12-hydroxy stearate, may be used (admixed or sprayed the die cavities or punches) to improve lubrication or the flowability of the powder composition. See column 4, lines 13-17. Lithium 12-hydroxyl stearate is used as additional lubricant to the polyethylene in the powder composition.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGOCLAN T. MAI whose telephone number is (571)272-1246. The examiner can normally be reached on 8:30-5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/ Supervisory Patent Examiner, Art Unit 1793

n.m.